

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/064071 A3

(51) International Patent Classification⁷: **G06F 1/00**

(21) International Application Number:
PCT/IB2004/000049

(22) International Filing Date: 14 January 2004 (14.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/439,986 14 January 2003 (14.01.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
23 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TAMPER-RESISTANT PACKAGING AND APPROACH USING MAGNETICALLY-SET DATA

(57) Abstract: A tamper-resistant packaging approach protects an integrated circuit (100) from undesirable access. According to an example embodiment of the present invention, data is encrypted as a function of the state of a plurality of magnetically-responsive circuit elements (130-135) and then decrypted as a function of the state (130-135). A package (106) is arranged to prevent access to the integrated circuit and having magnetic particles (120-125) therein. The magnetic particles (120-125) are arranged to cause the magnetically-responsive circuit elements (130-135) to take on a state that is used to encrypt the data. The state of these elements is again accordingly used to decrypt the data (e.g., as a key). When the magnetic particles are altered, for example, by removing a portion of the package, the state of one or more of the magnetically-responsive circuit elements is changed, thus rendering the state incapable of being used for decrypting the data.



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INTERNATIONAL SEARCH REPORT

Int Application No
PCT/IB2004/000049

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/35554 A (KONINKL PHILIPS ELECTRONICS NV ; PHILIPS SVENSKA AB (SE)) 15 July 1999 (1999-07-15) page 1, line 1 - page 3, line 15; claims 1-4; figure 1	1-25
A	US 5 117 457 A (LEDERMANN PETER G ET AL) 26 May 1992 (1992-05-26) column 2, line 44 - column 5, line 7; figures 1-4	1-25
A	US 2002/002683 A1 (DASPIT JOHN I ET AL) 3 January 2002 (2002-01-03) paragraphs '0025! - '0029!; figures 1,2,3d,4,5d	1-25

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

28 June 2004

Date of mailing of the international search report

11/05/2005

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INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/IB2004/000049

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 970 143 A (JORASCH JAMES ET AL) 19 October 1999 (1999-10-19) column 28, line 62 - column 29, line 2 abstract; figures 4a,5,6b -----	1-25
A	US 5 235 166 A (FERNANDEZ ALBERTO J) 10 August 1993 (1993-08-10) abstract -----	1-25

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